

NPTEL Video Lecture Topic List - Created by LinuXpert Systems, Chennai

NPTEL Video Course - Chemical Engineering - NOC:Mass Transfer Operations-II

Subject Co-ordinator - Dr. Chandan Das

Co-ordinating Institute - IIT - Guwahati

Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable

Lecture 1 - Basic concepts, Adiabatic saturation temperature
Lecture 2 - Design calculations of cooling tower
Lecture 3 - Design of cooling tower
Lecture 4 - Design of cooling tower
Lecture 5 - Air conditioning, Example problems on dehumidification
Lecture 6 - Mechanism of drying and drying equilibria, drying rate curve
Lecture 7 - Drying
Lecture 8 - Drying
Lecture 9 - Drying time calculation from drying rate curve
Lecture 10 - Introduction to liquid-liquid extraction, liquid-liquid equilibria
Lecture 11 - Effect of temperature on LLE and Design of single stage extraction
Lecture 12 - Design Calculation of Multistage Operation
Lecture 13 - Design calculation of multistage cross-current extraction
Lecture 14 - Design calculation of multistage counter-current extraction, Selection of extractors
Lecture 15 - Leaching
Lecture 16 - Leaching
Lecture 17 - Supercritical Fluid Extraction, equipment for leaching
Lecture 18 - Fundamentals of membrane separation processes
Lecture 19 - Manufacturing of membranes, advantages and limitations
Lecture 20 - Various models and applications
Lecture 21 - Various models and applications
Lecture 22 - Electric field enhanced membrane separation processes
Lecture 23 - Micellar-enhanced ultrafiltration
Lecture 24 - Adsorption
Lecture 25 - Stage wise and continuous adsorption
Lecture 26 - Fluidized bed and teeter bed
Lecture 27 - Unsteady state fixed bed adsorbers, ion exchange
Lecture 28 - Crystallization, types of crystal geometry
Lecture 29 - Solid-liquid phase equilibrium, Theory of crystallization

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Lecture 30 - Design of crystallizer, crystallization equipment